PATENT COOPERATION TREATY

REC'D 27 APR 2005 From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43*bis*.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. 04.02.2004 26.01.2005 PCT/B2005/050313 International Patent Classification (IPC) or both national classification and IPC C09K19/38, B81B3/00 KONINKLIJKE PHILIPS ELECTRONICS N.V. This opinion contains indications relating to the following items: Box No. I Basis of the opinion ☐ Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III ☐ Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial ☑ Box No. V applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited Certain defects in the international application Box No. VII ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3. Name and mailing address of the ISA:



Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Authorized Officer

Serbetsoglou, A

Telephone No. +31 70 340-3425



# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050313

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_	Bo	x No	o. I Basis of the opinion	
1.	Wi the	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.		
			is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search ider Rules 12.3 and 23.1(b)).	
2.	Wit	With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:		
	a. t	a. type of material:		
			a sequence listing	
		D 1	table(s) related to the sequence listing	
	b. f	b. format of material:		
	ı	□ i	in written format	
	Į	□ i	in computer readable form	
c. time of filing/furnishing:			of filing/furnishing:	
	I	<b>]</b> (	contained in the international application as filed.	
	[	□ f	filed together with the international application in computer readable form.	
	ī		runished subsequently to this Authority for the purposes of search.	
3.		copi	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional ies is identical to that in the application as filed or does not go beyond the application as filed, as ropriate, were furnished.	
4.	Additional comments:			

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050313

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-9

No: Claims

Inventive step (IS)

Yes: Claims 1

1-9

No: Claims

Industrial applicability (IA)

Yes: Claims

1-9

No: Claims

2. Citations and explanations

see separate sheet

### 1. State of the Art

The following documents (D) are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: US 6,137,623 A cited in the application

## 2. Novelty (Article 33(2) PCT), Inventive Step (Article 33(3) PCT)

The present application meets the criteria of Article 33(1) PCT, because the subject-matter of claims 1-9 is new in the sense of Article 33(2) PCT and involves an inventive step in the sense of Article 33(3) PCT.

### 2.1.

Document **D1**, which is regarded as being the closest prior art to the subject-matter of **claim 1**, discloses (claims) a reflector having a mechanically deformable portion of at least one reflective surface. By deforming the portion of the reflective surface, discontinuity is introduced in that portion of the reflective surface. A movable plate has a plate unit comprising primary and secondary material layers with different residual stress values such that the plate unit is non-planar which creates discontinuity in the reflective surface, by the help of a beam structure. The beam structure is thermally or magnetically actuated.

The subject-matter of **claim 1** differs from document **D1** in that the flexible foil, moveable by non-mechanical means, comprises an *array of alternating first and second sections* moveable between flattened and bent sections.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may therefore be regarded as providing an alternative flexible foil, easy and cost-effective to manufacture, having acceptable mechanical properties, in particular a more linear movement than the bending movement, said linear movement being larger than the typical thermal expansion effects.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT), since it is neither disclosed nor suggested in D1,

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2005/050313

or in any of the documents of the international search report, that the use of an array of alternating first and second sections in such flexible foils can solve the above problem.

The subject-matter of claim 1 is therefore inventive (Article 33(3) PCT).

## 2.2. Other dependent claims

Claims 2-9 are dependent on claim 1 and, as such, also meet the requirements of the PCT with respect to novelty and inventive step.